ASF S290
PRO RANGE
Acoustic Intumescent Sealant for the Professional

Technical Data Sheet

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Description

ASF S290 Acoustic Intumescent Sealant is a one part fire stopping gun grade joint sealant. Emulsion acrylic based it gives a firm yet flexible seal to joints in a variety of fire rated structures. It will not support combustion and when subjected to heat, chars and intumesces preventing the spread of smoke and fire through the joint.

In ensuring that flame and intumescent properties are maintained, most currently available sealants sacrifice sealing performance. ASF S290 Acoustic Intumescent Sealant has been formulated to give improved sealing and application performance coupled with excellent fire stopping properties.

ASF S290 Acoustic Intumescent Sealant is designed for sealing joints, voids and irregular holes in fire walls, floors, partitions and other structures and for maintaining their integrity when sealing around pipes and cables that penetrate them. It is also ideally suited for internal perimeter pointing of fire rated door and window frames.

ASF S290 Acoustic Intumescent Sealant is a 4 hour rated intumescent sealant formulated with fillers that provide noise reduction. The sealant has undergone tests to BS476: Part 20:1987 and BSEN 1366-3 with additional guidelines from BSEN 1366-4 for fire protection joints and testing in accordance with BS EN ISO 140-3:1995 for acoustic performance.

Features

Fire rated in both horizontal & vertical joints
No priming required for most construction substrates
Joint movement capability of 12.5%
For use in joints up to 50 mm wide
Excellent slump resistance
12 months shelf life
Fast cure - tack free within an hour
Easy to apply and tool off
Halogen free
Paintable
Excellent adhesion to most common building substrates
Reduces sound transmission in joints

Application Instructions

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All surfaces must be clean and sound, free from dirt, grease. The surfaces may be damp but not running wet. Use mechanical abrasion to clean porous surfaces before application to remove loose material.

For internal cracks in plaster etc. the shoulders of the crack should be widened to a

minimum of 3 mm to 4 mm to ensure adequate penetration and performance. For internal sealing around door and window frames and skirting boards a 10 mm fillet is recommended.

Particular attention should be paid to BS6093 (1993) - codes of practice for design of joints and jointing in building construction, when preparing a specification for a particular joint. In order to obtain maximum performance as a sealant the width of the joint should be twice the depth, and the use of backing material is strongly recommended e.g. polyethylene backer rod, mineral wool.

Prepare joint by cleaning and priming if necessary. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike of the sealant flush with the joint sides within five minutes of application, before surface skinning occurs. A small amount of shrinkage will occur on curing. If a flush finish is required, fill the joint slightly proud of the surface to allow for shrinkage.

Typical Fire Ratings

The following fire ratings have been achieved in controlled test work*

Joint Substrates	Orientation	Joint Integrity (minutes)	Insulation (minutes)
Masonry/Masonry	Wall Joint	240	240
Masonry/Masonry	Floor Joint	240	180
Gypsum Drywall	Wall Joint	120	120
Gypsum Drywall	Penetration	120	120
Concrete Floor	Penetration	240	240

The above results show typical integrity levels of the product in a fire situation, however, each joint situation will have different characteristics and therefore different fire ratings. In general it has been found that a greater depth of sealant will provide greater integrity and that the use of a double seal i.e. sealant applied at both external faces of a joint will increase values further.

* A full approval of the product is contained in Certifire Certificate of Approval No. CF 829

The Certifire report details tests carried out on the material when tested against the performance criteria of BS476: part 20 and BSEN 1366-3 with additional guidelines from BSEN 1366-4

Technical Data

Form:	Ready to use thixotropic paste
Specific Gravity:	1.60 - 1.64
Flashpoint:	None
Tack Free Time:	60 minutes maximum
Skin Time:	20 minutes maximum
Solids Content:	80% minimum
Movement Accommodation:	Low to medium 12.5% butt joints
Shelf Life:	Up to 12 months when stored in unopened cartridges under cool dry conditions. Avoid

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	temperatures above 30°C & below 5°C
Compatibility:	Can be used in contact with most building and decorating materials.
Classification:	Sealant ISO 11600 - F - 12,5P
Acoustic Rating	40(-3;-8)dB Rw(C;CTtr) BS EN ISO 717-1:1997

Usage

Usage (Figures quoted are for a standard 310 ml cartridge)

Joint Size (mm)	3 x 6	6 x 6	9 x 6	12 x 6	20 x 10	7 x 7 fillet	10 x 10 fillet
Linear Metres / Cartridge	17.2	8.6	5.7	4.3	1.5	12.6	6.2

Packaging

ASF S290 Acoustic Intumescent Sealant is available in 310ml & 380ml rigid plastic cartridges, 600ml aluminium foil sausages, 830ml jumbo cartridges and 5 litre pails.

Health and Safety

Wash the material from the skin while still wet. Material in contact with eyes should be washed out immediately with water. Seek medical advice if discomfort persists. More detailed information can be found in the relevant Polyseam Material Safety Data Sheet